Group number: 10
Project title: "Visualizing Probabilistic Whereabouts of Moving Objects"
Client &/Advisor: Goce Trajcevski

Team Members/Role:
Nathan Thoms - Frontend
Mara Prochaska - Backend
Eric Jorgensen - Documentation
Ryan Cook - Backend / Frontend Switch

Report Summary

In summary of the work completed this week - we spent time creating a more concrete set of information to compose design documents one and two. Although we had started brainstorming many of the ideas through classroom discussions and activities, many thoughts needed some polishing. Throughout the refinement process, we were able to think more deeply about finer project details overlooked in prior discussions. A fuller understanding of the project scope and application requirements is the primary result of this week's efforts; the more diligent we are in planning the less ambiguity we expect to face during design and development stages.

Accomplishments

As the summary suggests the tangible accomplishments for the week were the completion of design documents one and two. This differs from our original goals set by our action items list from the previous week, however, it was a necessary step to maintain project progress and ensure that all aspects of the design were thoroughly considered and documented before proceeding further.

- Delegated sections of the design documents to individual team members.

- ○ Problem Statement - Eric Jorgensen
  - ○ Intended Users - Mara Prochaska
  - ○ Requirements & Constraints - Nathan Thoms
  - ○ Engineering Standards - Ryan Cook
- Reviewed past senior design projects design 1 & 2 reports.
- Collaborated on revising each other's proposed sections to ensure completeness and consistency.
- Received feedback from advisor and submitted first design document
- Completed problem statement and user needs lightning talk slideshow
- Completed user requirements lighting talk slideshow

Pending Issues

We do not have any hard block pending issues, but we are still working on defining what parts of app development will belong to each team member. We are already anticipating that the proposed scope of the project will be relatively large for the small team size and experience of team members.

Individual Contributions

Team Member	Individual Contribution	Hours this Week	Hours Cumulative
Nathan Thoms	Produced a comprehensive set of requirements & constraints	5	24.5
Mara Prochaska	Updated team website, completed users section of design document and assisted with design document 1	5	19.5
Eric Jorgensen	Worked on problem statement section of design doc	2	12
Ryan Cook	Created a list of Standards to follow during the creation of the software	3	13

Upcoming Plans

Due to our change of plans from last week, we will set our upcoming plans from last week to this week. The upcoming plans relate primarily to future classroom tasks such as project

planning and design. Next week, we also have our in-class lightning talk, so we will be working on completing and rehearsing our slides. Along with that, we will need to cement our requirements and engineering standards that will apply to our project.

Within the next week we plan on having researched tool compatibility, or at least begun to. We are interested in establishing a set of frameworks that will keep us organized as well as show compatibility with visualization tools (i.e. does a react framework work with the D3 visualization tool set and geo-mapping library, are you able to overlay D3 plots overtop a given geo-mapping library). We would like to have an outline for the interfaces in advance of when they become part of the design documentation.

Action Items

Team Member	Individual Goals	Estimated Hours
Nathan Thoms	Create a high level diagram of application structure, lightning talk slides, and design document 2 (requirements and constraints)	5.5
Mara Prochaska	Update team website, lightning talk slides (requirements, engineering standards), and design document 2 (formatting and assistance)	5
Eric Jorgensen	Document user needs and requirements, assist with design document 2	3
Ryan Cook	Document standards related to the different aspects of the project and engineering standards for design document 2	6

Advisor Meeting Summary

In our last meeting with our advisor we solidified our understanding of several query types of interest to our user base. Additionally, we were advised to look at past senior design team's design reports, and to begin compiling our own. We also discussed our plans for meeting and working on the project during spring break. We shared our design document for feedback and were able to have some great corrections that we implemented before submission. Engineering standards is another subject that we discussed since it is part of the upcoming design

document. We agreed that we will submit a draft of the next design document along with our lightning talk slides before we come back from Spring Break.